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operations Sudbury closure extended	IA		terminated Silver sales reconsidered	IA	J065 J119	That tin exports Tin mineralisation in Centre	11	J472	Zinc musters more support Cominco cuts zinc output Corpus Christi cutback Gordonsville schedule	IA	J085
Empress nickel mine on c &			Botawana silver discovery?	IA	J124	Goias, Brazil	A	1461	Gordonsville schedule	IA	J101
m? Modest advance for nickel	IA	J358 J390	Sam Goosly update Precious metals turnout	IA	J161 J191	TITANIUM			Asnalcollar closure	IA	J101
Omaping closure	IA		Precious metals turnout VCR at Escalante	MM	J228	IIIAMIOM			Ponte Nossa sinc halt Imperial Smelting in 1981 Sinc cut for New Jersey	IA	
Perseverance mine - a prospecting case history			First shipment from Deer Trail	IA	J233	Witsubishi studies Westinghouse proposal		J141	Zinc loses ground Bunker Hill minter plant	IA	J125
history Cerro Matoso: full production	A	M381	Silver from St. Cloud Modified VCR mining at new	IA	J308	westingnouse proposal	14	3141	Bunker Hill minter plant	IA	
soon Nickel imports trimmed	IA	J438	U.S. silver project	P	M258	TUNGSTEN			Bunker Hill Einter plant sold Zinc steadies Loan for Peru Einc: no respite for Europe Minor rally for sinc Zinc prices out further	8	J173
Nickel imports trimmed	IA	J472	Bullish silver forecast Deer Trail to process	8	J339				Zinc: no respite for Europe	IA	1910
NIOBIUM			Deer Trail to process underground ore Silver sales	IA	J358 J376	Good tungsten grades in Tasmania	I	J029	Minor rally for sinc	3	J213 J229
			Study of silver mill Real de Angeles on stream	IA	J419 J449	Rajasthan wolframite Shift reduction at Mt.	L	J124	Sinc under pressure Boost for Hindustan Sinc		J272
Araxa niobium mine	A	M134	Real de Angeles on stream Sunshine suspension	IA	J449 J457	Carbina	I	J254	Boost for Hindustan Eine Report on sinc plant	IA	J276
OIL			Silver study behind schedule	IA	3458	Tungeten: isostatic tremors	w	# J270	Pierrepont start-up	IA	
OIL						in Bangkok China urged to reduce	-	J288	Que River achieves capacity Canadian brakes	NA.	J301
Shale oil: Cathedral Bluffs	MW	J005	TANTALUM			tungsten output Tungsten output to resume	8		Zinc follows the pattern Lead and sinc follow copper		J303
project delayed Rio Blanco completes retort			GSA awards tantalum contract	IA	J015	wien	M		U.S. output falling	8	J384
No agreement on Almanda	MW		Tantalum mine closure	IA	J375	Tungeten from China Springer mine opening	I	A J470	Lead and mine output rises	IA	J384 J386 J359
Alsands departures Tosco and Mt. Coolon	MW	J097	TIN						U.S. output falling Lead and zinc output rises Mational Zinc suspension Upper Volta Zn-Pb-Ag		
Further setback for alsands	MW	J124 J169				URANIUM				IA	J374
Rundle wins Government approval	14	J201	Tin falters	8	J010				That Einc agreement Einc amelter merger planned Jefferson City mine on	14	J374
WDDLOAMY	IA	J215	Tin support buying resumed Chinese tin find	B	J028	"Think-tank" outlines stock	-	¥ J007		14	J305
Further threat to Almanda	B IA	J254 J283	Tin support buying increases	8	7045	position ACTU reconsiders uranium	-	J023	Load and mine fall in	-	
Further threat to Almanda	92					Indian uranium and lignite			SYMPATRY	- 8	J414
Further threat to Alsands One month leeway for Alsands Oil glut strains Falklands: no major oil reserves		J291	New surge for tin Tin price rise rejected Restronguet plans abandoned	8	J083 J085	discoveries Uranium shipments resumed	1	A J039	Sinc fume suspension Lead and sinc fall back	14	J419 J438

Countries

ANGOLA			Argentine prospecting tender I	1	M131	Australian coal for India ACTU reconsiders uranium	IA WW	J014 J023	Newcastle loading problems Ben Lomond ore flown out	IA IA	J031 J031
New Angolan phosphate mine	H	M197				Japan cuts back on coal and iron ore	MA	J025	Success for salvage operation	IA	J031
ARGENTINA			AUSTRALIA			Good tungsten grades in Tasmania	IA	3029	Mining bill deferred Arckaringa Basin coal	MA	J031 J031 J044
Argentina sets prospecting tender date	IA	J029			J013 J013	Go-shead for coal project Daunia go-shead Concern over coal deal	IA IA	J039 J030	Argoey working on tailings plant Hanger deal renegotiated		J050 J051

Dispute over MSW's third	WW	J062	Cutbacks for North Broken	IA	J323	Brazilian power plant		J253			J291
Coal loader Reserves at Ashton	ΣA	J065	Mill Australian Sn find	H	M265	cancelled I China to buy Brazilian iron			Gaspe suffers	IA	J292 J292
Koreans consider Australian	IA	J066	Conditional approval for Jabiluas	н	M265	ore I Brazilian gold study I		J277 J291	Granisle closure British haulage system for	IA	J292
Sumikei cuts imports Australian coal strike	IA	J066 J069	Australian coal find Australian Au results	H	M265 W266	South American consortium		J291	Canadian mine	IA	J293
Newcastle port plans:			Recession bites down under	N	J331	E.E.C. seeks Carajas				IA	J293
support deferred Major miners press for		J069	Problems for N.S.W. coal miners	NW	J335			J291 J308	Canadian brakes Canadian exploration peaks	IEM.	J302
Apprealia: clearing an	MA	2080	Hunter Valley projects scaled down	IA	J342	Brazilian Sn investment B		M263	in 1980/81	IA	J307
export hurdle?	WW	J081 J085	Loader gets go-ahead	IA	J342	Brazil's uranium mine progresses I		J359		IA	J307
JW for Argosy and Cultus	IA	J085	Costain reduces Warkworth investment	IA	J342	First aluminium from Valesul & Coal discussions for U.K.	(W	J385			J307 J308
Australian ore to cost more for Japan?	IA	J086	Fimiston optimisation sought Meekatharra plant closure	IA	J343 J344	and Brazil	A	J395	Consolidated Rambler closes		J308
Australian Ni prospect Sn/W grades at NSW prospect	11	M015	Rail Act challenged Mines remain idle	IA	J344 J345			J438	BC Coal sells to Brazil	IA	J308
Golden Grove results	H	W015 W015	NBH suspends Fitzpatrick			Capanema on stream soon I Valesul, Brazil's new	A	J456	Noranda offer rejected Uranium: heading for the top	MW	J309 J319
Good enough gold in W.A. Big Bell potential	n	MO15	project Bamboo Creek update	IA	J355 J358	aluminium smelter now on stream	0	M443	Ontario gold mine on target Willow Creek study completed		J322 J322
Placer withdraws from Mount	IA	J101	News on Marbour Lights prospect	IA	J358	Tin mineralisation in Central			Cominco: further shutdowns?	IA	J323
Rising costs for Australian		J103	Exxon withdraws from		J358	Goias, Brazil	4	M461	Canada to sign Tin Agreement		J324 J324
coal Bucket wheel excavator for	1A		Yeelirrie Griffin: increased coal	IA		BURUNDI			Esso provides funds for Au	н	M266
lignite mine	IA	J121 J124	deliveries Finance for Tarong coal	IA	J359		A	J235	Promising results for Nuinsco	H	M266
Gordon joint venture Drayton lease finalised	IA	J134 J134	project Yeelirrie stumbles	MA	J369 J370		H	M353	Canadian start-ups for 1982	H	M366
Boyne Island aluminium			Work ceases at Rabbit	-					N. American synfuels projects collapse	MW	J333
Glendell EIS released	IA	J125 J137	Warren gold prospect Endeavour's plans	IA	J374 J374	CANADA			More graphite for Orrwell Rio Algom plans	IA	J342 J342
Meekatharra results	TA	J141	Mitsui SRC/CSR Coal	IA	J375	Closing date for Craigmont			Lornex at Bullmoose project	1.4	J342
Confirmed Peko help sought for Molyhil	IA	J141	Conversion study Wiluna tailings dumps	IA	J375	Falconbridge extends		J013	Sudbury closure extended Ore depletion at Madeleine	IA	J343
Oakbridge to increase output Hamersley seeks price	IA	J142	Gladstone production cut to	IA	J375	shutdown Kidd Creek reports on B.C.	IA	J014	Mines Mining assets for Eldorado	IA	J344 J344
Ashton moves closer to CSO	EA	J143 J155	Dowty electronics in Australian coal mines	IA	J376	property		J029	More cutbacks in Canada	MW	J353
Clash over coal freight	-		Yarrabee coal mine opened	IA	J395	Trail closure	AZ	J030 J030	Smelter study underway Consolidated Rambler fire	IA	J358
Project deferment	MA	J156 J156	Australian mines close Prok wins conveyor contract	IA	J397 J397	Inco announces further cutbacks	IA	J030	Fording bid rejected	IA	J359 J374
Beach sand miners see better	WW	J157	New 3.6 Mt/y export coal mine in the Hunter			New Cinch: false values	IA	J049	Cyprus Anvil plans closure Sullion from Lupin mine	IA	J375
New prospects sought	IA	J160	Valley	P	M341	Testing at Polaris mine	IA	J049	Financing of Canadian	IA	J375
Care and maintenance for Mt.	IA	J161	Australian mining towns to get TV	P	M343	Funds for B.C. Sinc: million tons for Kidd	IA	J050	graphite project Onaping closure	IA	J395 J395
Iron bre talks continue Australian uranium for	IA	J161	Tarong coal project Australia/Japan coal	H	M349	Creek Canadian focus on manpower	IA	J050	Work continues at Pamour		J395
Philippines	IA	J162	liquefaction plant	H	M349 J410	problems	MM	J061	Possupine Peasibility study for U	IA	
Further update on Ashton jv	P	W121	Concern over Clutha closures Golconda commissions plant More gold from Telfer	IA	J419	Iron Ore Co. suspension	IA	J065 J066	deposit B.C. coal developments	H	M351 M351
Australian Sn news Mt. Pleasant Mo progress	H	W126 W126	More gold from Telfer Otter reports on work	IA	J432 J438	No buyer for Yava mine	IA	J069	Canadian Mg plant Rehabilitated Au mine	H	W351
No expansion for Wm mine Australian oil shale	H	M127	No aid for Australian mine Labor fails to halt Roxby	IA	J441	Further gold mine planned	MW	J081	progress	H	M351
prospects	H	M137	Downs legislation Price rise for Robe River	MW	J465	Joint purchase for	IA	J085	Canadian mining study B.C. Pb/Zn/Ag development	H	M353
Jabiluka clears another hurdle	W	J171	Gold studies in NSW	MW	J468 J470	Scintrex/CAE	IA	J086 J087	postponed	H	M353
Gold find for Central	IA	J177	New mine for Cliffs Robe	IA	J470	Dragline for Poplar River			Potash application Hudson Bay mine closures	TA	J418 J418
Malgoorlie Olympic Dam agreement	IA	J177	EZ warning	IA	J471	mine New Quebec copper producer	IA	J087	Craigmont mills iron Three-month closure for Teck	IA	J419
Gold mines for Northern Territory	IA	J177	Latest Big Bell assays Makai Au results	H	M447 M447	1982 opening for Canada Au	P	M007	mino	IA	J419 J419
Coal production up Australia confirmed as	IA	J179	Drayton production schedule Australian Sn-Ta deposit	H	M447	mine	H	M014	Force majeure continues Fertilizer agreement for		
uranium supplier	IA	J181	Hastinites on-in deposit		2001	Alsands departures Flake graphite find	IA	J097 J101	Sherritt Gordon Inco to sell Exide	IA	J430
Griffin dispute settled Tarong project	IA	J181 J181	AUSTRIA			New iron ore mine planned	MA	J116	Electronics Serem jv	IA	J420
Iron shipment talks Coal shipment cuts	IA	J183 J183	35 m/d tunnel boring machine			Shell Canada withdraws	IA	J124	TacTung delay	IA	J438 J438
The Roxby indenture	MA	J194	advance in Austria	M	M493	Further Canadian iron ore cutbacks	IA	J125	Inco closure Quebec's newest gold	IA	J439
Afro-West to pursue Ashton claim	IA	J199	DAUDAIN			Esso funds Canadian gold	IA	J141	producer Dome confidence	MW IA	J451 J456
Research on McArthur River	TA	3199	BAHRAIN			Joe Mann mine deal	IA	J143	Falconbridge extends		
to be stepped up Coal areas for development	IA	J199 J199 J200	Gulf contract for Kaiser Gulf Aluminium plans	IA	J163	Canadian coal for Taiwan BP withdraws from Sukuska	IA	J143 J155	shutdown Ansil shaft work	IA	J457 J470
Cutback decision rescinded Japan questions N.S.W. coal	IA			IA	J376	Nickel Plate results Dumagami reports	IA	J160 J160	Canadian smelter decision postponed	IA	J470
Inader Safeguards agreement	IA	3300	BELGIUM			Dome withdraws from Alsands	IA	J160 J160	PCS cutbacks	IA	3471
finalised Sundia wine Government	IA	J200	Approval tests on conveyor			Owl ore for Kidd Creek Sam Goosly update More Alcan cutbacks	EA	J161	Inco Metals' plan Hudson Bay extends shutdowns	IA	J471 J471
approval	IA	J201	Coal port for Ghent	D	M104 J199	More Alcan cutbacks Jeffrey miss layoffs	IA	J161 J161	Falconbridge shutdown	IA	J471
Australian tin/tungsten development	IA	J215	Sinc smelter merger planned			PCS maintains production levels	P	W123	Hong Kong market for B.C. Coal	IA	J471
Government go-ahead for Jabiluka	IA	J215				New Canadian Au mines	P	M126	End of Alsands project	Н	1447
New gold treatment plant	IA	J215	BOLIVIA			Canadian small mine programme	п	M126	CHILE		
W. Territory royalties reduced	IA	J217	Strike at Bolivian tin miner	I IA	J126 J236	Further setback for Alexads Wilasour Resources reduces	MA	J169	British technology for Chile	IA	J031
Mitchell Plateau feasibility study	IA	J233	Bolivia rethinks export tax Strike hits Bolivian indust:	rylA	J255	operations	IA	J177	Record copper production Lithium contract for Fluor	MA	J044
W. Australian U mine	H	M195 M195	Bolivia removes tax Tungsten output to resume	IA	J277	Canadian mine cutbacks Further lead-zinc	IA	J199	subsidiary Latin America - mineral	IA	J067
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Stockpiling Queensland coal? St. Joe joins Sorby Hill	N. M.			**		New exploration equipment at	M	J214	Exxon project delay Li, K a B projects in Chile	P	3085 2005
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discussed	TA	J254	Botswana silver discovery?	**	****	Thermal coal project Further threat to Alsands	IA	J215 J215	Waiting for the return	MW	J118
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Australia details output Iron ore price agreement	IA	J254 J255	Botswana intake Botswana mine to remain ope	n IA		policy stance	MW	J227	Chilean Li plant	IA	J160 W131
Coal mine tragedy	IA	J255	Orapa order for Sigma Selebi-Pikwe guarantor	34		Smelter investment for PUK Gold mill for Ontario	IA IA	J233 J233	Los Pelambres update	IA	3177
Setter grades at Agnew Coal/Bic joint venture Tasmanian mining guidelines	IA	J277	Trees reme Bearanton.	4.0	0.000	Thierry mine: temporary	IA	J234	Cerro Colorado agreement Chile plans copper increase Coal find for Chile	IA	J200
Hameruley strike	IA	J277 J278	BRAZIL			Noranda: no cutback plans	IA	J234	Chilean investment	IA	J215
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BMP considers Lochinvar	-		Consortium to run Jari			New Canadian En mine Canadian graphite deposit	H	M194 M194	Delay for Chilean code El Indio officially opened	P	M191
position Pechiney agrees in principle	e IA		Expanding iron ore	IA		Arctic Pb-Zn mine B.C. Cu find	H	M194	Chilean drilling stopped South American consortium	IA	J291
-Kurri Kurri potline		J291	production Carajas financing agreement	149	J063 J066	Lake Dufault drilling report	H	N194	formed.	IA	J291
Calter plans Bayswater			Latin America - mineral	4.0		Cirque mining postponement One month leeway for Alsands	IA	J253 J254	El Romeral labour cutbacks Fluor acquires subsidiary Iodine: its markets and	IA	J293 J324
Que River achieves capacity	IA NY	J301	cornucopia New Brazilian Fe ore finds	18	J077 M013	Cominco Polaria shipments Cominco reduction	IA	J254 J254	availability	A	H283
Mameraley strike ends	L	J309	Brascan plans to boost tin	14		Flin Flon shutdown	IA	J254 J254	Chilean contract for	**	
enrichment	14		Araxa niobium mine	A	N134	Belmoral acquitted over mine accident	IA	J255	Outokumpu New Chilean coal mine	H	J344 H355
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Go-shead for La Escondida Chuquicamata smelter	H	J438 N446	Outokumpu: interest in Bula Tara output	IA IA	J276 J292	Indian Fe ore finds	K.	J141 M129	Rise in Japanese gold imports	IA .	J181
CHINA			FALKLAND ISLANDS			India estimates lead and	IA	J180 J215	Japan investment for Tonopah? Japan questions N.S.W. coal loader		1300
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China to use foreign funds Chinese ore wharf completed	H	J087 M017			J103 M446	Indian copper	H	M266 J344	Japan Down to increase Ezuri	IA .	J307
Chinese W-Sn plant China predicts 1982 coal	31	M017	Finnish apatite	H	M446	Indian potlines lack power Indian order for GMT	IA	J359 J376	output		J308 J323
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Chinese coal mining for Peabody?	IA	J141	French mine Changing times for France	D	M105 J093	Indian gold refinery	IA IA	J438 J438	Conversion study	IA IA	J375
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Japan orders Chinese coal for 1982	IA	J277	Pechiney cutbacks in France BRGM reconsiders ventures	IA	J457 J466	INDONESIA			Japanese gold imports	IA	J471 J472
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Chinese W find U.SChinese marketing	H	M266	Polish coal to Germany down	IA	J014	Inco cuts back in Indonesia	IA	J085 J086			J065
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			Laurium closure Bauxites Parnasse expansion	IA	J254 J397	ancient copper industry Israel and emeralds Israeli phosphate	IA	J255 J307	****		
COSTA RICA			Greek chrome project	IA	J456	Israeli phosphate find	H	N445	MALAWI		
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Comecon boost for Cuban nickel	IA	J124	Guyana	IA	J177	Samim plant gets approval Feasibility work on Sardinia	IA		Malaysian Cu find		M129
Comecon boost for Cuban nickel	14	J124	Guyana Hard times for Caribbean producers			Feasibility work on Sardinian bauxite	IA	J418	First Malaysian Cu smelter	R	M169
Comecon boost for Cuban mickel CZECHOSLOVAXIA	IA	J124	Guyana	MW H	J177 J247 M265	Feasibility work on Sardinian bauxite	IA	J418	First Malaysian Cu smelter Southeast Asian mining events, 1982	u	J180 M200
Comecon boost for Cuban nickel CZECHOSLOVAXIA Australian bauxite for Czechoslovakia	IA	J087	Guyana Hard times for Caribbean producers U exploration in Guyana	MW	J247	Feasibility work on Sardinian bauxite JAMAICA Bauxite levy eased	IA IA		First Malaysian Cu smelter Southeast Asian mining events, 1982 Pangkalen dredge on c A m	H	
Comecon boost for Cuban nickel CZECHOSLOVAXIA Australian bauxite for Czechoslovakia Coal from Czech spoil time	IA	J087	Guyana Hard times for Caribbean producers U exploration in Guyana HONDURAS	MW	J247	Feasibility work on Sardinian bauxite	IA IA	J418 J024 J081	First Malaysian Cu smelter Southeast Asian mining events, 1982 Pengkalen dredge on c & m Tin dredging at Berjuntai, Malaysia tin output	IA A IA	J307
Comecon boost for Cuban nickel CZECHOSLOVAXIA Australian bauxite for cachoslovakia Coal from Czechoslovakia Coal from Czech apoil tips Czechoslovakia Fast, cheap Czech method f Fast, cheap Czech method f	IA	J087 M131 J253	Guyana Hard times for Caribbean producers U exploration in Guyana HONDURAS Plant expansion completed a	MW	J247	Peasibility work on Sardinias bauxite JAMAICA Bauxite levy eased Return to work for Alpart workers Delay in signing bauxite	IA N IA WW IA	J024 J081	First Malaysian Cu smelter Southeast Asian mining events, 1982 Pengkalen dredge on c a m Tin dredging at Berjuntai, Malaysia Malaysian tin output Offshore mining for Malaysia Coal mines for cement	IA A IA	
Comecon boost for Cuban nickel CZECHOSLOVAXIA Australian bauxite for Czechoslovakia Czechoslovakia from Czech spol tipm Czech from Czech soca Fast, cheap Czech method from czech spol land czech Au news	IA	J087	Guyana Hard times for Caribbean producers U exploration in Guyana HONDURAS	MW H	J247 W265	Passibility work on Sardinial bauxite JAMAICA Bauxite levy eased Beturn to work for Alpart workers Delay in signing bauxite More Jamaican outbacks for	IA N IA WW IA	J024 J081 J087	First Malaysian Cu smelter Southeast Asian mining events, 1983 pengkalen dredge on cam Tin dredging at Berjuntal, Malaysia the output Offshore mining for Malaysia Coal mines for coment Malaysia threatens further outbacks	IA A IA	J307 J309
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Comecon boost for Cuban nickel CZECHOSLOVAXIA Australian bausite for Crechoslovakia of Calford Calfo	IAA	J087 M131 J253 J273 M263 J399 J399 J399 J399 J399 J399	Guyana Hard times for Caribbean producers U exploration in Guyana HONDURAS Plant expansion completed a El Mochito, Honduras HONG KONG Krupp wins order from Hong Kong HUNGARY Hungary coal development Bauxite mine for Hungary Hungarian bauxite mine Hungary turns to coal Bank levelopment INDIA Mineral exploration by public mector Indian mica for U.S.S.R. Australian coal for India Soviet aid for Indian phosphates Indian contract for Hawker Indian contract for Hawker	MW H	J247 M265 M443 J200 M013 J160 M263 M263 M263 M446	Passibility work on Sardinian bauxite JAMAICA Bauxite levy eased Return to work for Alpart Delay in signing bauxite pact More Jamaican cutbacks for Alcan Bauxite pact More Jamaican cutbacks for Alcan Bauxite decline in Jamaican production Bauxite bartering deal migged Alcose about the transporter Sharp decline for Jamaican Papart Sharp decline for Jamaican Layoft threatened Jamaican layoft threatened Jamaican layoft threatened Jamaican investment for Reynolds JAPAN Stockplie programme Soviet coal for Japan Aluminium advice for Japan Aluminium advice for Japan cuts back on coal and Missui rationalisation	IA I	J024 J081 J087 J101 J142 J189 J189 J236 J323 J344 J380 J419 J439 J456	First Malaysian Cu smelter Southeast Asian mining events, 1983 events,	MA IA IA IA IA IA IA IA	J307 J309 M266 J343 J409 J419 J457 J465 J471 M127 J014 J199 J199 J235 J235
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MOZAMBIQUE			Problems for SPCC Loan for Peru	new IA	J171 J179	Troubles for marginal gold	MW	J172	Thyseen wins contract in		
Aluminium refinery study for		E2.42	Peru welcomes foreign prospectors	TA	J200	Further fall for the Rand Beisa Mines: official	MA.	J172 J194	Thailand Thai tin output declines Thailand potash study	IA IA	J10 J23 M19
Mozambique Mozambique project for		J141	Peru details metals output	IA	J200	opening Anglo sells Niddelplaats	IA	J200 J212	Tungsten: isostatic tremors in Bangkok	MW	J27
Hunting	3.A	J418	Peruvian copper miners lift strike threat Mineral earnings fall	IA	J217 J228	Erugerrand sales Less SA ferrochrome for	IA	J216	Thai Zinc agreement	IA	J37
NAMIBIA			SPCC cancels refinancing	-		Japan	IA	J216	Tongkah considers new dredge Thai tin exports	IA	J37
Namibian Ta exploration	н	M199	plans New Cu Andean concentrator	H	J233 M197	S.A. Budget hits gold & diamond miners	MY	J227	TUNISIA		
			Peru: lead and zinc finds Cuajone strike	IA	J307 J308	. nador suspension belkor receives double	IA	J234	TUNISIA		
NEPAL			SPCC force majeure \$19 million loan for Peru	IA	J323 M363	Foskor order The Amgold view	IA	J235 J247	French finance for Tunisian phosphates	7.4	JOS
The mineral industry in			SPCC strike over	IA	J345	First blast at Western Deeps		J253	Smelter refurbishment		
Nepal	A	M161	Monterrosas is production Cobrisa isauguration	IA	J370 J419	ERPM shelves plans Start-up for S.A. tailings	IA	J254	considered	IA	343
NEW ZEALAND			Cobriza copper mine	P .	M441	project Withank coal for Japan	IA	J254 J255	TURKEY		
New Scaland mining			Peru's Pb/Zn finds confirmed Cerro Verde Phase II	i	M446 M446	Heavy falls in gold and diamonds	MW	J271	Hydraulic pit props for		
evolution	H	J223	Cerro verde Posse II		M440	Coal fares better	MA	J271	Turkey	IA	J10
NZ smelter extension plan Pechiney terms rejected by	IA	J253	PHILIPPINES			EwaZulu mine planned Erugerrand sales up	IA	J291 J292	Phelps Dodge to evaluate Turkish deposit	IA	J32
Pechiney terms rejected by H.Z. Smelter talks fail	IA	J322 J470	Atok closure?	TA	J030	Western Areas uranium for Germany	IA	J292	Turkish contract for Golder Turkish Cu-Zn: more tests	H	J36
			Witsubishi shows Philippines interest	IA	J049	More coal contracts Order for Esvirotech	MW	J302		_	
NICARAGUA			Causyan reserves proved Philippines fund to aid	IA	J065	Tremor kills Geduld miner FS Geduld accident: target	IA	J309	UGANDA		
Nicaraguan gold output	IA	J375	mining companies	H	M017	not affected	IA	J322	Ugande awarded World Bank		
U.S.S.R. pledge aid for Nicaragua	10	M446	Australian uranium for Philippines	IA	J162	Gold miners killed Eloof fire	IA	J324 J343	credit Ugandan phosphate study	H	J30
		4440	Philippines Southeast Asian mining events in 1982	м	M160	Sand treatment plant	IA	J343 J343		-	
NIGER			Philippines suspensions	IA	J180	S.A. gold output Priceka abandons deep ore	MM	J353	U.K.		
Iron ore study for Niger	XA	J253	Philippines Cu fund	H	J207 M195	Premier sub-sill project halted	MW	J369	Invergordon Al smelter to close	yu.	J00
Japan reports Niger uranium		J307	Causyan reserves proved	H	M195 W197	S.A. gold output Shaft damage at Durban Deep	IA	J375 J375	Commercial Shearing acquires		
Niger U finds	H	W445	The Dison copper-gold project, Philippines State aid for miners CIPEC invitation for		M268	Krugerrand sales fall	IA	J376	Lucas assets Shareholders approve option	IA	J01
MICEDIA			State aid for miners	MW	J410	More coal exports in the offing	MW	J389	on Hemerdon	IA	J02
NIGERIA				IA	J441	Radiometric sorting at Buffelsfontein Gold/			British technology for Chile Boulby shutdown	IA	J03
Nigeria reports iron ore	24	J358	Philippines produces more	IA	3456	Uranium mine, South	A	M393	Lochaber modernisation	IA	JOS
Nigerian Fe ore find	H	3358 W445	Threat of mine closures	IA	3470	De Beers alters production balance	MW	J410	Export award for drill sales Factory extension for	1A	J08
NABINAV			POLAND			Full production at PSG	IA	J419	longwall mining equipment manufacturer	M	JOE
NORWAY					200.	Sods-ash plant for Anglovaal S.A. gold output falls	IA	J470 J470	Restronguet plans abandoned	IA	JO
Sydvaranger's new mill	A	M030	Polish coal to Germany down Polish coal predictions	IA	J014 J030	Serious problems for W.R. Cons.	IA	J471	Opencast miners seek new deal	IA	300
Cutback for Norwegian Al producer	IA	J292	Polish bauxite find Coal in Polish ports	H	M013 J161	Beisa Mine	A	M448	British help for Indian mines	IA	JO
Grong Gruber aims for productivity	P	M259	New Polish salt mine Poland - industrial	H	M131	SPAIN			Belvoir still in doubt Overburden drilling	MW	J01
Sales agreement for Koppers and Aker Industri	TA	J376	production improves	IA	J215				U.K. longwall mining		941
Falcombridge to close			Polish technology for India Poland offers coal to Japan	IA	J233 J255	Spanish-Mexican agreement Asnalcollar agreement	IA	J014 J126	equipment to be displayed in China	M	J1:
Horwegian refinery	i.a	J440	Polish coal seam Five-decade plan for Polish	IA	J342	Ashland Coal: Spanish stake Spain wins Portuguese	IA	J217	NCB buys equipment Concentrator order for GEC	IA	J10
OMAN			coal mining	A	M363	contract	IA	J236	LGFM announces opening date Cornish Sn prospects	IA	
Oman Cu project, delayed		M445	Polish coal output rises Polish coal exports	IA	J418 J472	Endasa smelter cutbacks Mining hit by Spanish strike	IA	J254 J309	Workington coal terminal	IA	
are brodered acreted	-	2000	Polish lignite find	н	M445	Spanish miners: hunger strike	IA	J324	Conveyor contract for Cable Belt	IA	31
PACIFIC ISLANDS			PORTUGAL			Spanish contract for Portugal	H	M263	Coal through Hunterston? Brighton views	IA	J1:
Ok Tedi contracts	IA	J014				Endasa reduces Al output	IA	J470	Record achievements Gloomy forecast	MA	J1
Papua-New Guinea Cr, Co, Ni deposit	W.	M015	Spain wine Fortuguese contract	IA	J236				North Sea drilling for NCB	IA	J1:
Ok Tedi financing	IA	J141	Spanish contract for Portugal	H	M263	SRI LANKA			Gearbox for NCB Cornish Sn project withdrawn	IA H	J2
Ok Tedi finance secured EEC loan for Papus - New	MA	J156				U deposits in Sri Lanka	11	M129	Man-made island metallurgical plants -		
Guines Le Nickel's production down	H	M126 J177	ROMANIA			Sri Lanka's uranium potential	IA	J199	feasible? More Belvoir indecision	D	73
	WW	J211	Romanian Cu mine	н	M129		-		Marine Mining: permission		-
Financing arrangements for Ok Tedi, Stage I News on Papus New Guinea's	P	M258				SUDAN			refused Drilling at Cornish prospect	IA	
News on Papus New Guinea's Cr-Co-Ni deposit	н	W265	SAUDI ARABIA			Optimism for mining	MW	J433	British coal for Sweden Babcock wins U.K. contract	IA	13
U.K. credit for Ok Tedi	H	M349	Halco sells to Saudi Arabia	IA	J161				Handling equipment for British Gypsum	7.4	32
PNG gets biggest crane Emperor estimates 1981-82	IA	J441	Saudi Arabian mineral finds	H	M445	SURINAM			Scandura belts for NCB	IA	32
output	IA	J471	SIERRA LEONE			Billiton to cut Surinam			Ritchies to distribute Gardner-Denver products	IA.	J2
PAKISTAN			Marampa Fe to be			output Surinam cutback for Billiton	IA	J085 J419	British haulage system for Canadian mine		
			rehabilitated	1	M137				New London Gold Futures		.19
Pakistan to market minerals in Middle East	IA	J014	Sierra Leone kimberlite Sala wine components	IA	J342	SWEDEN			Market launched Exports boost U.K. coal	-	-
Pakistan coal deposits Pakistan coal deposits	IA	J029 J143	contract	IA	J360	Major Swedish companies join		700	performance Tin plant to re-open	IA	J3
Japanese help for Pakistan			***************************************			forces Granges buys Lamco interest	IA	J084 J143	Queen's Award for Ransomes	T.A	J3
Chinaclay Barites in Pakistan	H	M129 M129	SOUTH AFRICA			Joint ventures for Australia discussed	IA	J254	UK hopes to sell to Austria Artificial islands for the	IA	
Pakistan coal news Pakistan coal news	#	M129 M266	Krugerrands in demand	MW	J024	BP-LKAB talks Atlas Copco buys 7.8%	IA	J342	coal mining industry	D	MS
Pakistan gem project	IA	J344	Hartes orders radiometric morter	IA	J031	interest in Boliden	IA	J376	Permission for Wheal Concord Agreement for Invergordon	AI D	J3
Trouble for Gematone Corp. o Pakistan	IA	J374	Mine purchase for Marlin Investments		J031	Swedish research mine aims to raise productivity	P	M343	Steel order for coal plant	IA	J3
PANAMA			Iscor awards contract 8.A. gold output falls	IA	J067 J086				Invergordon progress? Cornish drilling results	IA	
			Delkor clarifier for			SWITZERLAND			The modernisation of	R	MS
Slow progress for Cerro Colorado	IA	J049 J211	Buffelsfontein Safety award for Gold Fields	IA.		Switzerland to join tin	7.4	J087	Lochaber aluminium smelter	A	MS
Petaquilla rekindled	MM	J211	South African coal mine w mining in S. Africa	P	MO08 MO14	agreement	IA	3087	NCB investment New ball mill delivered	IA	34
PARAGUAY			Special-purpose vehicles for diamond mining	м	J099	TAIWAN			Smelter talks withdrawal	IA	
Wineral concession in			Wit Nigel curtailment	IA	J103	Canadian coal for Taiwan	TA	J143	Baxter Crushers opens business	IA	J4
Paraguay	IA	J160	New shaft underway at ERPN Welgedacht spending	IA	J124			0749	Belvoir: the next step Minerals industry study	MW	34
PERM			Golden Dumps buys Delkor thickener	IA	J125	TANZANIA					
PERU			thickener	IA	J142				UNITED ARAB EMIRA	ATE	ES
Peru Pb-In find	E	M013	South African coal sales NWU rejects Wiehahn	MW	J143 J187	Tazara rail talks	IA	J217	Mineral contract for Hunting	g IA	J (
	3636	J116	Electric fault at Kloof	IA	J160				UPPER VOLTA		
Antamina open for bids? Concentrator work for Kaiser	IA	J126	Expansion at Western Deep								
Antamina open for bids? Concentrator work for Kaiser Compensation fund for Peruvian minere Peruvian energy project	IA IA	J126 J126	Levels, South Africa 11 Mt/y plus coal project is	P	M121	THAILAND			Upper Volta En-Pb-Ag		

U.S.A.			U.S. primary Al production			Black Thunder record	XA	J397	mine	7.4	J457
Shale oil: Cathedral Bluffs			down Mt. Gunnison start-up	IA	J179	Mapco stake increased Anaconda to sell Montana	IA	J399	The U.S.S.R. and Commodity	TA	J458
project delayed	MW	J005	Listerhill cutbacks continue Fall in U.S. iron ore	IA	J180	complex Thermal Energy acquires	IA	J399	Soviet coal find	IA	J470
Contract Mining reports silver find	IA	J013	receipts	IA	J181	Montana coal rights	IA	J399	New U.S.S.R. Mn mine U.S.S.R. Pe ore	H	M446 M446
Silver processing at Deer Trail	TA	J013	Coal terminal for U.S. New coal corporation	IA	J199 J199	New Mexico Cu-In exploration	H	J399 M351	U.S.S.R. salt mine progress Recent U.S.S.R. coal reports	H	M447
Phelps Dodge cutbacks	IA	J013	New Mexico property for Boliden	IA	J200	U.S. coal news	H	M351 M351			
Pipeline financing Rio Blanco completes retort	IA	J015	Ban on wilderness mining	IA	J200	Phosphate news in Florida	H	M353	VENEZUELA		
tests	MA.	J025	Magma Copper to cut output Formal U.S. stand on Seabed	IA	J216		H	M353	Fire at Venalum	IA	J216
Ray Mines plans downtime	IA IA	J030	USBM on Alaska deposits	IA	J217 J233	Protection for domestic	MW		Briquette plant closure Fluor to work on Venezuelan	IA	J216
Target for Ladner Creek	IA	J030 J031	First shipment from Deer			uranium producers? Coal mine construction for	MW	J409	project	IA	J255
Mineral leasing returns to			Trail Al production down	IA	J233 J235	Santa Fe	IA	J418	No joy for Venezuela Venezuela's \$200 million	MA	J270
Energex Minerals acquires	MA	J044	Ex-Im Bank loans	IA	J235	Town development for Exxon Study of silver mill	IA	J419	Carbozulia coal project	P	M343
	IA	J049 J049	Conversion work for Fluor subsidiary	IA	J235	Camp Bird mine sale Mowlem makes mine investment	IA	J420 J420	VIETNAM		
Montana Tunnels development	IA	J050	Costain wins mining contract UNC to make nuclear	IA	J235	Coal venture planned Soda ash start-up	IA	J438 J439	Vietnam boosts coal	н	M349
Hecla stops shipments to	IA	J080	components Bethlehem considers sell-	IA	J236	Massey Coal buys mines	IA	J440	YUGOSLAVIA		
Bunker Hill Uranium producers sued in	IA	J051	offs	IA	J236	Drilling contracts Cominco sells off	IA	J440 J440	TOGOSLAVIA		
U.S.	IA	J051	Bishop strike over Rich Au find in U.S.	H	J236 M194	Anaconda works resume at Summitville	IA	J456	Yugoslav gemstone mine Yugoslav coal news	H	M013
Silver study agreement terminated	IA	J065	U.S. coal mine sales	H	M194	Amax to suspend molybdenum			Sasa Pb and Zn project	H	M129
Zapata not to sell division Japanese interest in Coral	IA	J067	New U.S. commodity law proposed	8	J249	production Reserve closure	IA	J456 J457	New Yugoslav bauxite mine Yugoslav anthracite	H	M131 M195
Canyon mine	IA	J085	Closure at Ray St. Joe lawsuit reinstated	IA	J254 J255	Pikrose order slope hoist Silver study behind schedule	IA	J457 J458	Kazani mine progresses Mineral targets for	IA	J254
Hayden closure	IA	J086	Conveyor systems	IA	J255	Springer mine opening	IA	J470	Yugoslavia	IA	J323
Four-day week for Cyprus Pima	IA	J086	Placer terminates agreement Mobil report	IA	J276 J276	Amarillo reduction Amarco reduction	IA	J471 J471	Yugoslav coal Yugoslav bauxite find	H	M263 M263
Gas Hills uranium agreement	IA	J086	Newmont Mining: more cutbac'	TA	J276	Coal rate pact New U.S. In mine	IA	J472 M447	Yugoslav Ni complex	H	M263
Deserado contract for Harrison Western	IA	J086	Standard Oil coal deal	IA	J276	Madre find more Ag	H	M447	Yugoslav coal output Barytes mine for Yugoslavia	IA	J374
Quartz Hill contract for			Compressed air energy storage	IA	J277	E.I.S. on strip mining changes	H	M447	Barytes mine for Yugoslavia 11th World Mining Congress Yugoslav lead and sinc	M	J391 J397
Bechtel Investor group declines	IA	J086	Minerals policy released	MA	J286 J287	Brass Ring assay results Possible Alaskan Zn-Pb-Ag	H	M447	New Yugoslav Pb/Zn mine	H	M353
Bunker Hill option Mineral rights purchased	IA	J086	Further Synfuels doubts Work on coal port postponed	IA	J291	Possible Alaskan Zn-Pb-Ag project	н	M447	Yugoslav coal deposits 11th World Mining Congress,	H	M353
Arizona-Sonora Desert Museum	P	M011	Mercur project: 1983 target Asarco to restart furnaces	IA	J292	U.S. lignite mine	H	M447	Belgrade Yugoslavia	A	M369
Nevada Au/Ag find U.S. coal terminals	H	M013 M014	at Hayden	IA	J292	U.S.S.R.			ZAIRE		
EPRI coal cleaning test plant	н	MO14	Pierrepont start-up Empire and Tilden mines	IA					New aluminium consortium		
Strategic deposits in			idled Coal lease for U.S. Steel	IA	J292 J292	Soviet coal for Japan Indian mica for U.S.S.R.	IA	J014 J014	formed	H	M014
Pacific Orchard Valley mine	H	M014 M020	Bunker Hill: abortive rescu	0		Soviet aid for Indian phosphates	IA	J029	New era in diamonds Zairean diamond sales	IA	J097 J181
Test success for Exxon	IA	J101	efforts Sunnyside workforce cut	IA	J293	Belgorod iron ore	IA	3029	Hard times for Zaire	N	J267
Gordonsville schedule U.S. Al output down	IA	J101 J101	U.S. mineral policy: a broat	d	J299	Flygt pumps ordered by U.S.S.R.	IA	J031	Halcodrills for Zaire project	IA	J360
Howmet cutback License agreement for Kerr-	IA	J103	Smoky Valley undate	IA	J307	New iron ore capacity	IA	J066			
McGee	IA	J104	Coal gas project abandoned Rise for U.S. aluminium	IA	J307 J308	First ore from Rudnogorsk Ural mining planners report India seeks U.S.S.R.	D	J066 M104	ZAMBIA		
Sale of Colorado coal mines Florida waste treatment	IA		Silver from St. Cloud	IA		India seeks U.S.S.R. financing	IA	J105	Tailings leach stage III for	-	
plant Reagan rejects subsidy	IA	J105	Cuts planned by Martin Marietta	IA		Kazakhstan coal	IA	J142	Loan for Zambian coal	MW	J043 M014
proposals	IA		Fluor wins contract Modified VCR mining at new	IA	J324	Soviet coal below target NEU works on pneumatic	IA	J142	Two major Zambian P2Os finds	H	M014 M015
U.S. to return to the fray Cominco agrees Alaskan	MW	J117	U.S. silver project McDermitt mine - the U.S.A.	P	M258	conveying Belgorod Fe ore reserves	IA	J143	Zambia seeks EEC funding	IA	
exploration	IA	J124	largest producer of			ingrease	H	M129	EEC loan for Zambia copper project	н	W137
New York Assay Office to close	IA	J126	mercury Gibbons Creek - new lignite	P	M261	New U.S.S.R. mines Prediction and prevention of	н	M129	Zambia copper merger	IA	J217
Budget cut for Bureau of Mines	IA	J126	mine in Texas	P	M261	methane outbursts in Russia	D	M176	Zambian copper and cobalt output	IA	3234
The State of the Union	N	J133	Californian Ni-Co reserves Production started at Deer	H	M266	Soviet gold	IA		Lectra Haul expands in Eambia	IA	J308
Revival of exploration activity in Alaska	MW		Trail	H	M266	Rail line to Siberian minerals	IA	J217	Sambian Cu transport plan	H	M267
Gasquet Mountain report Indiana coal laboratory	IA	J141 J142	N. American synfuels project collapse	MA.	J333	Development at Hg mine U.S.S.R. chromite mine	H	M195 M195	Sambian targets increased Go-ahead for TLP III at	14	3397
Copper Range layoffs	IA		U.SChinese marketing venture	IA	J344	U.S.S.R. aid for Finland U.S.S.R. Fe ore projects	H	M197	Nchanga	MW	J431
More gold coins offered in the U.S.	IA	J142	America's distractions	N	J351	Ukrainian coal news	H	M197			
U.S. studies in-mine coal preparation systems	IA	J142	More cutbacks in the U.S. China signs up U.S. aid	MW		U.S.S.R. Sn find Erdenet: a Soviet-Mongolian	H	M197	ZIMBABWE		
Coal futures case	TA	J142	U.S. output falling Amarco trims Capex	MA		mining and ore-dressing			Zimbabwean deficit gloom	XA	J013
Bunker Hill seeks plant sale Simon Group contracts	IA		Mining at Glenwood Springs	in		Work on Estonian phosphorite	D	M245	Mineral marketing Bill introduced	MW	3061
U.S. phosphate: abundance in doubt		J153	three years Potash shutdowns	IA		deposit	IA	J291 J293	BCL matte for Zimbabwe	MA	J137
In situ leaching at Bluebird	1 MW	J156	Sumitomo to supply terminal Pincock, Allen & Holt sale		J360	Soviet uranium for Argentine Decline in self-sufficiency	1.8		Mining involvement for Zimbabwe Government	IA	J217
Ayerok to re-open mines Total inspiration	IA	J160	Permit for coal terminal	14	A J360	detailed by USBM New Soviet manganese mine	IA	J302 J323	Wankie coal prices Zimbabwe's mining plans	IA	J229 J324
USBM on precious metals	IA	J161	Rising supplies Progress for Sunshine Minis	M	J370	Fe ore find in U.S.S.R.	H	M266	Empress nickel mine on c &		
Coal terminal study Plan to ban wilderness	IA		Tonopah ore stockpiled	I	A J375	Kachar mine construction Lead-sinc work	IA		m? Renco on-stream	IA	J359
mining Stockpile study schedule	IA	J162	Magma cave-in UNC sums General Atomic	I		Salt mine for Uzbekistan	IA	J375	Zimbabwe considers Gold Act Perseverance mine - a	IA	
Alaskan Mo project	H	M126	Bunker Hill demolition	I	3376	Kostomuksha combine Hydraulic stripping of			prospecting case		
U.S. mine reserves rise Skyline coal project	H	M126	Sales agreement for Koppers and Aker Industri	I	A J378	Russian iron ore Sublevel caving in the	D	M421	The Renco project	A	M381 J451
progress Closure cost hits Noranda	H	M126	Depressed times for steel	341	W J389	U.S.S.R. Coal mine for U.S.S.R.	D	M423	Composition of the MMC	MA	J486
Lead smelter closure	IA		New Mexico work resumes	1		Modernisation of Soviet coa		0419	Opencast expansion project at Wankie	P	M442

Methods and Machines

ASSAY METHODS

BLASTHOLE DRILLING

BLASTING & EXPLOSIVES

Compact materials analyzer w J174

Gy-Ro mill for fast grinding w J251

AUTOMATION

Becken ised production drilling in open pits blasthole drilling impressive drilling impressive drilling performance

BLASTING & EXPLOSIVES

Solamogel - a safer selamic w N N315

COAL TECHNOLOGY

Australia, Canada, South Africa and U.K. M J175

Crusher/dryer for use in fluid bed furnaces w J046

Crusher/dryer for use in fluid bed furnaces w J046

Crusher/dryer for use in fluid bed furnaces w J046

Computer programs for coal mining Design award for coal mining

Design award for coal mining

Design award for coal mining

Design award for coal mining

Coal TECHNOLOGY

Crusher/dryer for use in fluid bed furnaces w J046

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Crusher/dryer for use in fluid bed furnaces w J046

Coal TECHNOLOGY

Australia, Canada, South Africa and U.K. M J175

Natural radiation utilised in guiding coal cutting machines	w	J304	Process for removal of cyanide from waste waters	N	J393	Free software for portable		J454	MAINTENANCE & LUBRIC	ATI	ION
Double ranging drum shearer for U.S. coal mining Fine coal treatment in India	×	W311 J373	EXCAVATORS & LOADS			magnetometer	М	J468	Lubrication Lubricating system for small	М	J011
Specialist heat exchangers is coal handling		M494	Morwegian bydraulic face shovels	w	J047	FILTRATION Order for belt filter	TA	J235	grinding mills Minimising wear in iron ore	_	J250 J393
COMMINUTION	•	8404	Airline pilot aptitude tests for dragline operators New wheel loader	M	M096 M097	Horizontal filter in glass		M413	surge silo hopper Mine car cleaning system	М	J415
Sydvaranger's new mill High performance coal	A	W030	New wheel loader Benefits of back-acter shovels in quarrying New bucket teeth	D	M105 J121	FLOTATION METHODS			METALLURGY	M	J064
breaker Feeder breakers	MA	J100 N149	Bucket wheel excavator for lignite mine	H	J121	400 ft ³ cell successful is coal preparation	М	J012	QSL lead recovery process Quality control Man-made island metallurgical	E	M119
Hydraulic hammer/excavator combination New design come crusher		M171	Hydraulic excavators in the Middle East and Australia	M	J139	Bubble tube pulp level	A M	M035	plants - feasible? Simulation of heap and dump leaching	D	N244 N296
Attachment to mount rock breaker on leader	M	J372	Hydraulic hammer/excavator Bulldozers New 25 yd ³ mining shovel	A	M171 M211	GEOLOGY & ORE RESE	RV		Beisa mine	A	N448
bucket	M	J391	New 25 yd mining shovel New hydraulic shovel New medium-sized loader	M	J289 J321	Nickel resource analysis Tape recorder for	A	M061	MINE COMMUNICATIO		
COMPUTERS			introduced New elevating scraper New 10 yd3 loading shovel	M	M311 M405 J454	seismographs The origin of metals: a	M	J174 M226	Beam waveguides	н	J047
New mine hoist data logger Computer programs for coal mining	M	J027	W. German crawler-mounted dragline for U.K.	M	J468	Correspondence Data reliability in ore	L	M235	MINE HOISTING		
Performance revealed Control system for coal plant	E	M189 J251	Tunnelling by machine EXHIBITIONS & MEETI	A NG	1469 S	Tin mineralisation in Central	L	M379	New mine hoist data logger Mammoth wire ropes World's first frequency-	M	J027 J198
Simulation of heap and dump leaching	A	M296	Swedish symposium in Mexico	IA	J015	HEALTH & WELFARE			Controlled winder Shaft signal recording	M	J340 J455
Computer-directed dispatch system and traffic simulator for open pits	н	M607	Programme for Engineers Geosat meeting Underground excavation	IA	J015 J015	Novel pressure ventilated helmet	M	J027 -	Pikrose order slope hoist	IA	J457
Data on the rocks	MW	J451	design Practical mine permitting	IA	J015	Monitoring radioactive decay products	м	J099	MINERAL PROCESSING Sizing equipment	N	J011
CONVEYORS		1005	in the 80s Mineral processing systems World coal markets	IA IA	J015 J031 J051	INSTRUMENTATION			Microprocessor-based ore sorting system	М	J083
New design belt cleaner Approval tests on conveyor balts	D	J027	Wine development in the 80s Wetallurgical contribution to acience-based	IA	1069	Borehole viewing system for Cornish project	M	J120	Wet high intensity magnetic separator Flotation machines	MA	J084 M035
film order for BTR Belting Feeder breakers New solid-woven conveyor	IA	J104 M149	archaeology Arizona-Sonora Desert Museum	IA P	J087 N011		ME	J174 M189	Araxa niobium mine Screening and compacting Effective hydrocyclone	A	M134 J198
belt plant Conveyor equipment for	M	M170	Extractive metallurgy of copper Bauxite symposium Mineral economics	IA IA	J105 J105	Three-in-one portable borehole logger Monitoring fan at U.K.	M	M411	installation Tin dredging at Berjuntai,	M	J198
mining worldwide Conveyor systems Low-maintenance belt cleases	IA	J197 J255 J373	Mineral economics Oceanology International 82, Brighton, England	IA M	J105 J120	colliery	M	M495	Malaysia Mobile carbon-in-pulp module The Dizon copper-gold	M	J289
Conveyors for potash mine Drift belt for Selby Hold-back system	N	J415 J417 J469	Coal convention Successful trading in	IA	J143	LABOUR Strike action closes Tara	MW	J023	project, Philippines Iodine: its markets and availability	A	M268
DREDGING	_	3400	Coal production and transportation	IA		ACTU reconsiders uranium Return to work for Alpart	MM	J023	New methods in magnetic separation	м	J340
Tin dredging at Berjuntai,		M300	Coal: hee market technologies Southeast Asian mining	IA	J162	Jamalco closure Canadian focus on manpower	TA	J051 J051	Dense medium separation Radiometric sorting at Buffelsfontein gold/	М	J373
Malaysia New line of "mini-dredges"	H	J305	events in 1982 Brighton views	N NW		problems Australian coal strike World Bank loan for Jordan	IA IA	J061 J069 J069	uranium mine, South Africa Study to evaluate Brazilian	A	M393
DRILLING			Mineral Title Examination Tunnelling 82 New exploration equipment a	IA	J201	Opencast miners seek new deal	TA	J069	shale oil treatment	М	3417
Improvement to hand-held unit	N	J028	FIM annual dinner Offshore technology	I A		Tara redundancy notices Funds for tomorrow Early retirement at Sudbury	E IA	J087 M003 J126	Highly efficient, low cost hydrocyclone filter Renold wins export gear	M	J454
Hew instrument for mast inclination measurement Geomet drill diamond	- 10	J046 J083	Geomechanics colloquy Statistics in resource	IA	J276	Tara peace move Strike at Bolivian tin mines Compensation fund for	IA	J126 J126	Mineral separator for	IA	J457
Major Swedish companies join forces All-in-one drill coupling	H	J084	development Coal technology BPMA meeting	IA	J278	Peruvian miners	EA EA	J126 J142 J142	upgrading alluvial and tailings materials Spinning rifflers for	M	3468
New diamond core drill	M	J130 J130	Ore deposits workshops Mechanical handling seminar Underground coal conversion	IA IA	J293	Copper Range layoffs WWU rejects Wiehahn Jeffrey mine layoffs	MW TA	J157 J161	accurate mineral sampling Solar evaporation simulator	M	J468
Hand-held drill and sampler Hughes Tool acquires Genera Electric unit	IA	J174 J181	Copper conference New methods in magnetic memaration	IA M	J309	Kennecott idles Utah labour SPCC strike postponed Peruvian copper miners lift	TA	J183 J200	with further mineral processing applications Pneumatic tube system for	М	M491
Electric unit Botary drills for surface mining	M	M237 M238	Mining machinery: call for	IA	J340 J345	Peruvian copper miners lift atrike threat Alcoa's Jamaica strike ends	IA IA	J217 J236 J236	handling mineral samples	M	M493
Range of mining drills Hydraulic percussive drills up-date Improved range of small		M392	11th World Mining Congress, Belgrade 11th World Mining Congress,	M	J391	Bishop strike over Strike hits Bolivian industry	IA		OFFSHORE & DEEP S	N SEA	M495
Improved range of small button bits Exploration drilling for	M	M313	Belgrade, Yugoslavia 25th anniversary	A	M369 J411	Coal mine tragedy Belmoral acquitted over mine accident	IA	J255	The second secon		ING
chalk in U.K.	H	M317	Carbon-in-pulp Ferroalloys - feeling the recession	IA		Falcombridge contract ratified LEAB to cut workforce	EA	J255	Oceanology International 82, Brighton, England	M	J120
EDUCATION & TRAIN	ING		Many interesting new machin at "Expomat" Data on the rocks	NA N	J436 J451	Inco to cut research staff Hamersley strike	IA IA	J255 J278 J278	Brighton views Pormal U.S. stand on Seabed treaty	MW	J195
Funds for tomorrow Airline pilot aptitude test for dragline operators		M003	New geophysical equipment a EAEG exhibition The U.S.S.R. and Commodity	H	J484	Hecla layoffs El Romeral labour cutbacks Sunnyside workforce cut	IA IA	J293 J293	Offshore mining for Malaysis Ocean Mining Convention adopted, but	E MW	
Geostatistics for planning Quality control	IA E	J162 W119	markets Recent advances in mineral	1/		Cuajone strike Hamersley strike ends Tremor kills Geduld miner	IA IA	J308 J309 J309	Seabed mining talks	IA	
ENERGY & POWER			science and technology Cadmium conference Exhibition delayed	14	J458	Mining hit by Spanish strike Noranda offer rejected	IA IA	J309	OPENCAST MINING		
Borehole viewing system for		LIES	Tunnelling experts from man countries meet in Brighton	y	M458	Gold miners killed Copper talks postponed Spanish miners: hunger	IA	J324	Mining activity in the Western World New bucket teeth	A	M067
Cornish project Geothermal exploration in Java	M	W120 J141	EXPLORATION	-	4400	Sherritt Gordon contract	IA	J324 J345	Araxa hiobium mine Dragline bucket with effective wear-resista	A	M134
Eastern Gas joins teal-gas project		J141	Wineral exploration by			agreement Mines remain idle SPCC strike over	IA	J345 J345	lining	M	J321
Compressed air energy storage Further synfuels doubte	TA WW	J287	public sector Prospecting in Greece Snowdonia drilling	IA IA	J029	ACTU: uranium quandary Kambalda staff reduction Inco talks break down	IA IA	J399	The Dison copper-gold project, Philippines F.R.G. opencast mining equipment for U.S.	A	M268
Coal gas project abandoned	IA		Bechtel to help developing countries The mineral industry in	14		Australian mining towns to get TV Horanda offer accepted	p Ta	M343 J419	phosphate mine Computer-directed dispatch system and traffic	М	J372
ENVIRONMENTAL CO			Nepal Nand-held drill and sampler	A	M161 J174	Jamaican layoffs threatened No aid for Australian mine	IA	J419 J441	simulator for open pit	n M	M407
Orchard Valley mine Plan to ban wilderness mining	IA	3183	Peru welcomes foreign prospectors New exploration equipment a	t I		Placer layoffs Gulf uranium mine troubles Valleyfield talks	IA IA	J441 J441	PIPELINES		
Ban on wilderness mining Past, cheap Czech method for recultivating mined	EA	JEGO	The origin of metals: a speculation	M	J214	Civil services	E	H430	Pipeline financing Coal slurry system to move	IA	
land Hunter Valley environmental		J273 J291	New seismic energy source Exploration drilling for	M	J321	LEACHING Simulation of heap and dump			Appalachian coal Joint dense phase test facilities offered in	M	J028
utudy			chalk in U.K.	M	M317	leaching	A	M396	U.K.	м	J230

EUMATICS & HYDRAI	JLI	cs	The Economics of Gallium Control of Carcinogens Application of rock		J126 J126	New vibrating unit for wet- sticky media		M409	Rail line to Siberian	IA	J183
raulic percussive drills		1292	machanica to out and	R	N168	STRATA CONTROL			Tagara rail talks	IA	J217
umatic tube system for			Thailand - mines and mineral		M168	New capsule product for rock			New 25t, Cat-powered articulated dump truck	#	J230
handling mineral samples		M493	Uranium mining and radiation			reinforcement	M	J099		IA	J28
					M168 J183				Tractor units for mining Portable skip dumper	M	J35
LITICO-ECONOMIC			Mining International Year			TAXATION & TARIFFS			Portable skip damper	•	0.30
sisive year for Brazil	4	J001	Book Resources of ACP countries	IA	J201 J201	Zurich removes gold sales					
ckpile programme	W.	J007	Mineral background papers Gold regulations & taxes for	IA	J201	tan	MA	J024			
mbabwean deficit gloom iombian profile		J013 J021	Gold regulations & taxes for mining etc.	R	W236	Major miners press for "protection" reform	MM	J080	TRANSPORT-		
sece begins nationalisation				R	M236	N. Territory royalties	IA	J217	UNDERGR		
	IA I	J031 J031	Non-ferrous metals Coal prediction	R	M236 J278			J217 J236		101	UNI
neral leasing returns to		J044	Saudi mineral report	IA	J278	Basic concepts of mine	A	M230	Special-purpose vehicles for diamond mining	u	J01
meral marketing Bill	-		Agglomeration future Investment grants 1972	TA	J293			J277	New battery-powered mine	-	
introduced tin America - mineral	W	J061	Coke development until 1990 World trade in lead and zinc	IA	J309				Australian loader simed at	M	J23
cornucopia	N	J077	The economics of coal	IA	1309	TRADE & STATISTICS			export markets Finnish loaders in South	M	J2
ina to use foreign funds		J087 M003	Thomson's Oil and Gas Year Book	AZ	J324	China's metal ahead of			Finnish loaders in South African gold mine	M	33
ning activity in the			Geochemical data for England			target	IA	J014	national gold many	-	
Western World anging times for France		M067 J093	and Wales Geophysical case study of	IA	J324	Pakistan to market minerals in Middle East	IA	J014			
gan rejects subsidy			the Woodlawn Orebody.			Ferrochrome supply and					
proposals		J105 J118	N.S.W., Australia The Notts. Coalfield, 1881-	P	M309	demand Coal must close the gap	N	J041 J057	TUNNELLING &		
th Korea's mineral plans		J124	1981	R	M309	Latin America - mineral	-		SHAFT SI	NH	CIN
York Assay Office to	IA	J126	Coal - a pictorial history of the British coal			cornucopia Aluminium: an optimistic	N	3077	Olini 1 31		*****
get cut for Bureau of			of the British coal industry	R	M309	view	MW	J080	Diesel-driven trucks prove		
Mines State of the Union		J126 J133	New Mexico resources map	IA	J399 J400	Nickel resource analysis	Δ	M061	effective	M	30
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Nepal	A	M161	industry	IA	J400	Imperial Smelting in 1981 tlM order for BTR Belting	IA	J101 J104	Sweden	M	J
Roxby indenture lippine problems	MA	J194 J207	Fibre optics and telecommunications	IA	J400	Gold reviewed		J113	Tunnelling under the Channel Rapid concrete handling in	M	M
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Zealand mining evolution		J217 J223	retrieval	IA	J400 J400	Uranium: a preliminary view Differing outlooks	N	J134 J137	Civil services	E	
. Budget hits gold and			Design and operation of		0 400	Decline in magnesium			Tunnelling by machine 35 m/d tunnel boring machine		_
diamond miners	MM	J227	caving and sublevel	R	M403	production Stockpile study schedule	IA	J161 J162	advance in Austria	×	M
policy stance lay for Chilean code	MW	J227	stoping mines Proceedings of the First	10.	8403	Tin promotion and technical	-		Tunnelling experts from many countries meet in		
lay for Chilean code sic concepts of mine	IA	J236	U.S. Water Jet	R	M403	development	A	M156	Brighton	A	M
financing	A	M230	symposium Coal - trade, transportation			Peru details metals output Zinc: no respite for Europe	MW	J200 J210			
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rd times for Zaire	N	J267	South African mine valuation Memento des Mines et	I K	M489	production improves Mineral earnings fall	IA	J215 J228			_
	N	J283 J286	Carrieres	R	M489	Basic concents of mine	-		UNDERGROUND MIN	IN	G
nerals policy released S. mineral policy: a broad	**			_		financing Mixed fortunes for minor	A	M230	Mine scaling unit	M	3
brush MECON in the 1980s	N	J299 J315	PUMPING & DRAINAG	E			N	J243	Electric LKDs	M	3
mbabwe's mining plans	IA	J324	Hydraulic submersibles	M	J415	New U.S. commodity law proposed	8	J249	Factory extension for longwall mining		
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nancing arrangements for Ok Tedi, Stage I	P	M258	RESEARCH			Mineral output and outlook World lead output increases	IA	J271 J292	Orchard Valley mine	Ä	J
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erica's distractions ofile on Ecuador	N	J351 J367	IGS ore standards Diamond research funded	IA		Plumbing the depths Decline in self-sufficiency	MA	J301	Purpose-designed rock scaler	A	J
tion programme for coal	N	J383	Quality control	E	M119	detailed by USBM	MW	J302	Purpose-designed rock scaler U.K. longwall mining	-	
ld - price revival in prospect	MW	.1385	Tin promotion and technical		M156	Iodine: its markets and availability		M282	equipment to be displayed in China	w	J
mbabwe considers Gold Act	IA	J399	development Palladium replaces gold	IA	J472	Hydraulic percussive drills			New salt cutting machine Large scale underground	N	3
Phoenix syndrome ate aid for miners	E WW	M337 J410	Minerals industry study	IA	J472	up-date	A	M292	Large scale underground mining - a reader's		
recasting the impossible?	N	J427	DUDDED & DI ACTICO			A London view OECD production continues to	-		COMMON TO E	A	1
timism for mining oking for recovery	MW	J433 J447	RUBBER & PLASTICS			fall	MW	J337	Longwall mining equipment display	w	-
neral supply and the			New abrasion-resistant			Japanese metals expectations A downward revision	MA	J387	Blasthole charging vehicle	M	
consumer bor fails to halt Roxby	N	J463	coating Tough new rubber lining	M	J140	Aluminium output falls	IA	J395	Large scale underground	L	
Downs legislation mposition of the MMC	MA	J465	lough new rubber lining	M	M172	Essential fertilizers Forecasting the impossible?	N	J407 J427	Tunnelling and longwall	L	
mposition of the MMC	WW	J466				Production slips to 5-year			Tunnelling and longwall equipment exports Continuous miner for coal and other minerals	M	
ROSPECTING			SAFETY			low	MY	J431 J432	continuous miner for coal	u	
HOSPECTING			Novel pressure ventilated			Feeling the recession Looking for recovery Mineral supply and the	N	3447	Hungary turns to coal Undercut and fill stoping -	A	
w portable automatic base			helmet New salt cutting machine	M	J027 J159	Mineral supply and the consumer	26	J463	A POVIOW	n	
station magnetometer reseverance mine - a	M	J175	Prediction and prevention o	f	3199	Aluminium output falls	1/	J471	Sublevel caving in the	_	
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history rborne surveying	A	M381 J415	Automatic fire extinguishin	8 D	WILE				50000 0000	_	
	-	0410	for underground vehicles	M	3230						
UBLICATIONS			Detector for environmental	26	9230	TRANSPORT-GENER	AL		VENTILATION & DUST	T	
			and personnel radon	м	J273						ITR
unnelling history and my own involvement	R	M095	monitoring		3273	Newcastle loading problems Ben Lomond ore flown out	I	J031 J031	-	J14	
anuel du prospectueur						Success for salvage	4.0		Unique ventilation project at Canadian nickel min		
	R	M095	SCREENING			operation	11	J031 J031	at Canadian nickel min	e P	P
minier		MORS	Concention			Uranium shipments resumed Newcastle port plans: support deferred	11		New anemometer with direct digital readout	u	u
minier esign and construction of tailings dams	R										
minier esign and construction of		J105	Linear motion screens Tough rubber screen cloths	M	J047	support deferred Coal terminal for Vancouver	I	A J069	Monitoring fan at U.K. colliery	u	

Companies and Other Public Bodies

A			Agip Airflow	Dawalo	nman t		IA	J235 J372	MI	J186	IA	J430	IA	J470 J471	Amax			A	M139	M	J437 J020
Aberfoyle MF J219 MF J295	ME	J091 J298	Oy Airas	AB Ko	meta	•	M	J139 M030	Alcoa	3090	MP	J147	IA	J051 J397	Amax	MF	J128 J344	MF	J294 J363	MF	
Ace Vulcanising Ltd. Adamac Mining	MP	J373 J128	Alcan	J090	IA	J101	MF	J017 J161		Encabba			A	J280 M025	Amax	Nic	kel Inc.			AI	

merican Marine & Machinery			Codeles	IA	J233	Fletcher Sutcliffe Wild	14	J108	International Tin Agreement	IA	J16:
Co. imoco Einerals	MP .	J305 J347	Columbia Scientific	MP	J459	Fluor Corporation	MF	M170 J145	N J167 IA J217 MW J449	MW	J22
IA J125 MW J136 IA J375 IA J389	HA HW IA	J066 J318	Industries Corp. Comalco	MF	J174 J218	IA J235 IA J255 Fluor Mining & Metals	M	J324 M096	International Tin Council	IA	J24
inscords Aluminium	IA	J456 J030	COMECON	NA	J315 M358	Plygt	M	J031 J415	International Tin Research Institute	A	M15
Andaluza de Piritas SA	IA IA	J101 J126	Comisco IA J124 IA J199	IA	J085 J254	Foote Mineral Co. Francasa Oil & Gas	MP	J203 J129	Interoc Ltd. Irathane International	M	J04
Anderson Strathclyde	MF	J357 J444	MF J310 1A J323 IA J358 MF J421	MW	J353 J440	Freeport-WcMoRan Inc.	MP	J185 J362	Iron Ore Co. of Canada	IA	J30
inglo American Corp.	HP HP	J090 J421	Commercial Shearing Inc. Compagnie Française des	IA	J015	Free State Geduld	IA	J419			
	ME	J432	Petroles	IA	J161	G			•		
nglo American Coal Corp.	ME	J473 J476	Compagnie Royale Asturienne des Wises	MP	J405				Jacobs Engineering Group Jeffrey Mining Machinery	M	M49
nglo American Gold Investment Co.	ME	J256	Companir Companhia Brasileira de	M	J437	Gardner-Denver IA J292	M	J250 J357	J. I. Case	A	M47
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rdal og Sundal Werk	MF	1380	Pacifico SA	MF	J378 J477	General Electric Co.	M	J083		MP	J26 J31
IA J292 MW J355	IA IA	J419	Conoco	IA	J067	General Mining Union Corp. MF J204 MF J257	ME	J203 J258	John Deere	M	M21
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tlas Consolidated	MP	J339 J364	Consolidated Technologies Corp.	M	J391	IA J323 IA J376 Geological Survey of Canada	IA	J441 J415	Joy Process Equipment	M	J01
P W259 W M313	H	J084 J376	Corporacion de Fomento de la Produccion		MDOS	Getty 011 OHH Sterkrade	MF	J444 J083	K		
	H	M493	Costain Group	IA	J235 J342	Giant Yellowknife	MF	J240			
ustralian Consolidated Minerals	MF	J018	Craelius	M	M317	Gibraltar Wines	MP	J150 J280	Kaelble-Gmeinder	A	J39
veling-Barford	IA	J101 J436	CRA Ltd.	IA	J185 J397	Gilson Co. Inc. Glendell Coal Ltd.	M P	J468 M341	Kaiser Aluminum IA JOSO MF J072	IA	J03
veling-Barford vino Mines	NF	J148	Craigmont Mines	IA	J013 J419	Golder Associates Gold Fields of South Africa	IA	J397 J053	IA J050 MF J072 IA J276 MF J347 Kaiser Engineers	IA	J35
			CER Leg.	MP	J110 J233	Goodman Equipment Corp.	MF	J131 J159	Kaiser Steel Corp.	IA	30
hand Industria	90	J251	Cyprus Anvil	IA	J375 J438	Gopeng Consolidated	MF	J109	Kalmar Kockum KCA Minerals	IA	J00
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aboock-Noney	IA	J441 J471	D			Graviner Ltd.	MP	J460 J230	Kenting Earth Sciences Kerr Addison	M	J4
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erjuntai Tin Dredging	MF	J442	Delkor Technik	IA	J087 J235	Gullick Dobson International Gyro Mining Transport	H IA	J139 J376	Krupp Industrie- und Stahlbau		Jo
Berhad ethlohem Steel	A	M200 J127	Denison Mines	MP.	J107 J159			0010	M J198 IA J200	IA	J21
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ougaisville Copper	MP	J442 J145	Dunlop	×	M170	IA J234 IA J254 MF J335	MF	J322 J461	Liberian Iron Ore Liebherr	MP	J4:
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rinos ted.	MF	J481 J019	Dynalectron Corp.	IA	J235 J050	Hawker Siddeley Hazemag Dr. E. Andreas GmbH	IA	J086 J046	Linden-Alimak	IA	J2
ritish Aluminium	MP	J478 J388	_			Hecla Mining IA J051 MF J147	MF	J037	IA J342 P M343	MP	34
A W300	IA	J456	E			Hemerdon Mining	IA	J293 J029	Locker Industries London Gold Putures Market	IA	
ritish Gypsum roken Hill Proprietary	MF	J277 J186	East Rand Proprietary Mines	IA	J254	Highweld Steel	MP	J298 J128	London Metal Exchange	8	J0:
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TR Belting Ltd.	IA	J104 J417	Eimco Wining Machinery Eldorado Nuclear	M	M311 J344	Homestake Mining	MP	J165	Lurgi Chemie und		
ucyrus-Erie	¥.	J454	Elf Aquitaine	MF	J477 J141	Horwood Bagshaw	M	J456 J290	Huttentechnik	M	100
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able Belt adillac Exploration	IA	J183 J307	Briez Wagnetics Esco Corporation	M	J340 J121	IBH Holding		M216	Marlow Drilling Services Mary Kathleen Uranium	M	31 31
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entromin	IA	J419				Institute of Cobalt Development	IA	3199	MF JO74 MF J107	MF	J(
harter Consolidated	P MF	M441 J074	F			Institute of Geological	IA	J031	Mina Disputada de la Condes	MP	3
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hemoo Engineering	IA	3441	IA J470	IA	J471	International Lead and Zinc			wrneroperu		
Chemco Engineering CIPEC Cities Service Co.	H IA MP MP	J281 J444	Falcosbridge Nickel Wines	IA IA	J050	Study Group	MA	J062	Mining Research &		
Themco Engineering		J281	Falconbridge Nickel Mines MF J130 MF J237 MF J382 1A J440		J050 J258 J457	Study Group International Minerals and Chemicals Corporation	MP		Wining Research a Development Establishment		J4
Themco Engineering	MP MP A MP	J281 J444 W219	Falcosbridge Nickel Wines	IA	J050 J258 J457 J033	Study Group International Minerals and	MA	J180 J086	Mining Research & Development Establishment Mining Transportation Co. A Minorco MF J074	B M MP	

Mitsubishi Metal Corp.	IA IA	J049 J141 J125	Ferusyhtyma Oy The Pettibone Corp.	M	J341 J100	Samuel Montagu	WW	J437 J333	Terradex Corp. Thyssen (Great Britain)	MIA	J273 J104
	IA	J050	PHB Weserhutte	IA	J304 J255	Sandvik Scandura		J250 J277	Transvasl Consolidated Land	IA	J124
	IA	J456	M J372 IA J419	M	J468	Schweizerische Industrie-			a Exploration	P	N122
	M	J011 W409	Phelps Dodge MF J109 IA J177	IA	J013		M	J231	Trelleborg	MT	J159
Molycorp Inc.	IA	J254	WW J286 IA J322	IA	J358	Scintrex IA J086	IA	J055 J458	Tronoh Mines	ME	J405 J477
	M P	J437		MF	J363	Secoma	A	M025		-	
	M	M096	Phosphate Development Corp. Pincock, Allen & Holt, Inc.	MF	J108 M407	Selco Selection Trust	P IA	M007 J124			
adipay oros.	-	2000	Pitcraft Summit	M	J064		IA	J419	••		
41			Placer Amex	IA	J276	Seltrust Holdings	MF	J020	U		
N			Placer Development	PIA	M261 J051	MF J187	MF	J361 J087	UC Investments	MP	J130
	M	M096	IA J101 IA J234	MW	J287	Shaft Sinkers (Pty) Ltd. Shangani Mining	I A MF	J087 J053	MF J163	ME	J164
	IA	J233	MF 3362	IA	J441		MW	J333	UNC Resources	MF	J052
	IA	J471	Poclain	M	J436	Shell Brazil	P	M443	Union Carbide Corporation	IA	J376
	A TA	M471	Podmore & Sons Ltd. Potash Corp. of Saskatchewan	TA	J251 J030	Shell Canada Sherritt Gordon	IA	J124 J014	MF J329	IA	J375
	IA	J359	P M123 MW J248	IA	J308		IA	J345	Union Tin	MP	J089
NBL Corp.	M	J415		IA	3471	IA J420	IA	J439	Union Miniere	IA	J216
	MP	J013 J221	Preussag Prieska	IA	J179 J089	Showa Denko	MF	J350	Uniroyal Chemical	MF	J405 J140
NEI International Combustion		J420	Prok International	IA	J397	Showa Light Metal Siemens AG	IA	J471 J047	Unit Rig & Equipment	IA	J308
NEU Engineering	IA	J143	Prospectors and Developers			Oleman Ad	M	J340	Uranium Institute	MA	J007
New Cinch Uranium	IA	J049	Assoc.	M	J214	Sigma Power Corp.	TA	J255	U.S. Borax	IA	J086 J136
New Jersey Zinc Newmont Mining	IA	J125 J013	Pylon Electronic Development	M.	1099	Simon Engineering Group Societe Generale de	M	J175	U.S. Bureau of Mines	IA	J161
MF J109 IA J234	IA	J276	_			Belgique SA	MP	J350		IA	J233
MF J294 MW J353	MF	J362	R			Societe Metallurgique Le	-		U.S. Steel Corp.	MF	J280
Nitro Nobel Mec	IA	J439 J084			****	Nickel	IA	J177	Utah Development Utah International	IA	J216 J181
NICIO NODEL MEC	MP	J477	Rahman Hydraulic Ranchers Exploration	MP	J165 J074	Solidur Plastics	MF	J475 J321	***************************************		
Noranda	MW	J136	MW J156 MW J228	P	M258	South African Iron and Steel	-	0081			
IA J179 IA J234	MF	J263	Rand Mines	MF	J072	Industrial Corp.					
MW J353 MF J362 IA J375 IA J419	MF	J364 J441	IA J124 IA J254	MF	J312 J343	(Iscor) Southern Peru Copper Corp.	IA	J067 J171			
Nord Resources	MF	J054	Ransomes & Rapier	IA	J343 J324	IA J200 IA J233	IA	1323			
	WW	J211	Raygo Wagner	A	M219		IA	J359	V		
North Broken Hill Holdings	IA MF	J323 J363	Rees Instruments	M	J120	Southwest Consolidated					
Northgate Exploration	MF	J055	Renison Goldfields	MP	J202 J438	Resources	MF	J276 J424	Victor Products (Wallsend)	M	J028
MF J071 MF J221	MF	J379	Renold Power Transmission	IA	J235	Spantec	IA	J087	Vieille Montagne Volvo BM	MP	J405 J437
North Kalgurli	MF	J052	IA J457	M	J469	Specialist Heat Exchangers	M	M494	40140 BM		3431
MF J074 MF J150	MF	J239	Reserve Mining Co.	IA	J030	Spendrup Fan Co. Standard Oil Co. of	A	M023			
	-	0840	Reynolds Metals	IA	J457 J180	California	IA	3067			
0			IA J359	IA	J456	States of Malaya Chambers of			W		
U			Richard Mosley Ltd.	M	J198	Mines	FA.	J409			
Oakbridge	IA	J142	Rio Algom IA J342	MP	J295 J362	Steep Rock Iron Mines Stone & Webster Engineering	MF	J297	Wabco	A	M139
Oak Orenstein & Koppel	M	J321	Rio Tinto Mining (Zimbabwe)	MF	J165	Corp.	M	J417	Wankie Colliery Warner & Swapey	P	M442
Octavius Atkinson & Sons	IA	J360 J014		MP	J363	Strachan & Henshaw	M	M494	West Coast Holdings	IA	
Ok Tedi Mining P M258	IA	J441	Rio Tinto-Zinc Corp. IA J049 NF J074	MF P	J037	Sturtevant Engineering Subterranean SA	M	J230 J099	Western Deep Levels	P	M121
Oman Mining	IA	J456	MF J187 IA J307	MF	J313	Subterranean Sa	Ā	M489	Western Mining Corp.	IA	
O'okiep Copper	MP	J329	MP J346	ME	J348	Sullivan Mining	MY	J017	Western Winolco	IA	J030
Orrwell Energy Corp. Outokumpu	IA	J342 J276	Roan Consolidated Mines	MF	J020	Sumitomo	IA	1323	Westralian Sands	MF	J204
IA J343 IA J344	MF	J401	MF J149 MF J163	MF	J221	Sumitomo Aluminium Smelting Co.	IA	J086	West Rand Consolidated	IA	
			Robert L. Priestley Ltd.	M	J159	Sumitomo Electric Industries		J323	Whim Creek Consolidated Wilanour Resources	IA	J461
P			Rocky Mountain Energy	MF	J279	Sumitomo Heavy Industries	IA	J360	Wilkinson Rubber Linatex	M	W172
•			Rooiberg Rosario Resources	MF P	M443	Sunshine Mining IA J374 MF J377	MP	J073 J457	Williams Companies	MF	J402
Pacific Cassiar	MF	J221	Royal Dutch/Shell Group	MF	J329	Superior Oil	MP	J402	Wirth Witbank Colliery Ltd.	A.	M469
Pacific Tin	MF		RTZ Ore Sorters	M	J083	Svedala-Arbra	M	J372	Witwatererand Nigel	IA	
Pahang Consolidated	ME	J444 J378	Ruhrkohle Russell J. Findlay &	MP	J020	A/S Sydvaranger	×	J437 M030	WMC Holdings	MY	
Palabora Mining	MF		Associates	M	J468	a/o oydvaranger		mU30	World Mining Congress	MA	J411
Pamour Porcupine	MF	J203	Rustenburg Platinum	MP	J033	-					
Pantana Mintan	IA		ME J034 ME J238	MF	J240	т					
Paringa Mining Peabody Coal	MF		Ruston-Bucyrus	M	J011	Ou Tampalle (Tempock)	IA	J103			
Pechiney Ugine Kuhlmann	IA	J233	_			Oy Tampella (Tamrock)	H	M238	_		
IA J291 IA J322	IA	. J324	S			Tantalum Mining Corp.	IA	J375	Z		
Daho Wallacad IA J358	IA		De Jee Minomile	P	W101	Tara Exploration	MA	J023			
Peko-Wallsend Penarroya	IA		St. Joe Minerals IA J253	IA	M191 J255	IA J069 IA J067 IA J179	MP	J126 J474	Zambia Consolidated Copper	9401	F J020
Pengkalen	IA	J180	Sala International	M	J289	Tata Iron and Steel Co.	MF	J281	Eapata Corp.	1/	A J067
	MY			IA	J360	Teck Corporation	MF	J088	Simbabwe Alloys	M	F J461
A		J100	Salford Electrical			IA J419	MF	J462	Zincor	M	
Pennsylvania Crusher Corp. Pennsoil	M	J460	Instruments	14	3304	Tenneco	TA	J439	Zokor	24	M404